FIG. 1

```
gaagtttgcg tgctgcc                                                    17

atg gag acc aga gcc ttc tgg ata acc ctg ctg ctg gtc ctg gtt           62

gct ggg tcc tcc tgc aaa gcc cag gaa ttt gtt ggc cta tct cca           107

agc caa tgt atg gcg cca aca aat gtc agg gtg gac tgt aac tac           152

ccc act gtc aca tca gag cag tgt aac aac cgt ggt tgc tgt ttt           197

gac tcc agc atc cca aat gtg ccc tgg tgc ttc aaa cct ctg caa           242

gag aca gaa tgt aca ttt                                               260

tgaagctgtc caggctccag gaagggagct ccacaccctg gactcttgct               310

gatggtagtg gcccagggta acactcaccc ctgatctgct ccctcgcgcc               360

ggccaatata ggagctggga gtccagaaga ataaagacct tacagtcagc               410

acaaggctgt tctaattgcg g                                              431
```

FIG. 2

```
Met Glu Thr Arg Ala Phe Trp Ile Thr Leu Leu Leu Val Leu Val
                5                  10                  15

Ala Gly Ser Ser Cys Lys Ala Gln Glu Phe Val Gly Leu Ser Pro
                20                  25                  30

Ser Gln Cys Met Ala Pro Thr Asn Val Arg Val Asp Cys Asn Tyr
                35                  40                  45

Pro Thr Val Thr Ser Glu Gln Cys Asn Asn Arg Gly Cys Cys Phe
                50                  55                  60

Asp Ser Ser Ile Pro Asn Val Pro Trp Cys Phe Lys Pro Leu Gln
                65                  70                  75
Glu Thr Glu Cys Thr Phe
                80
```

FIG. 3

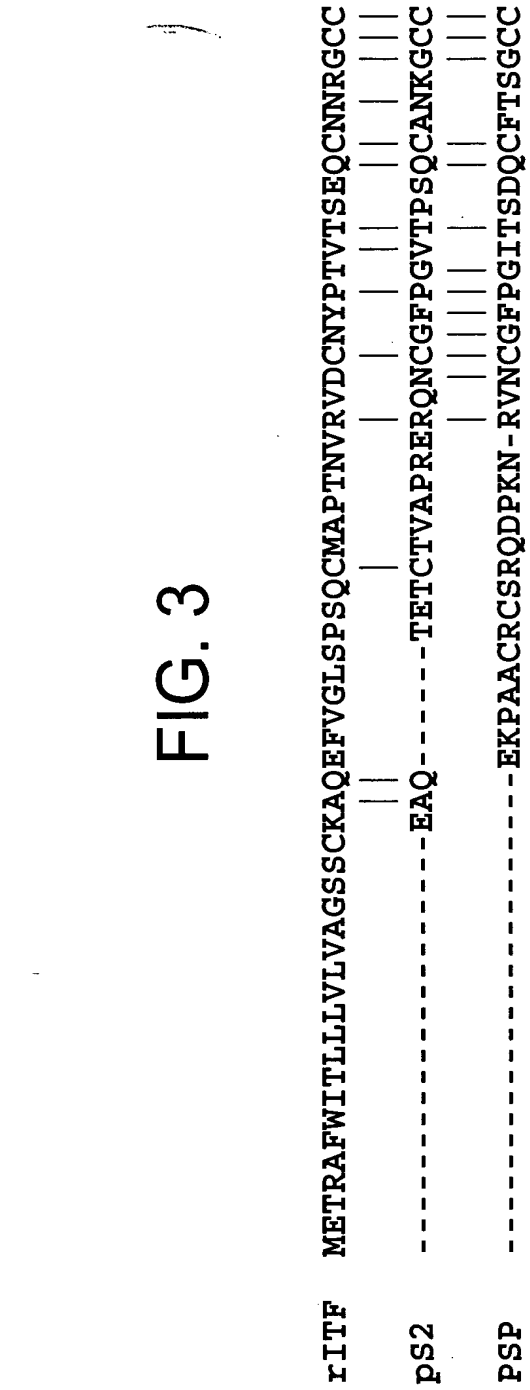

FIG. 4A

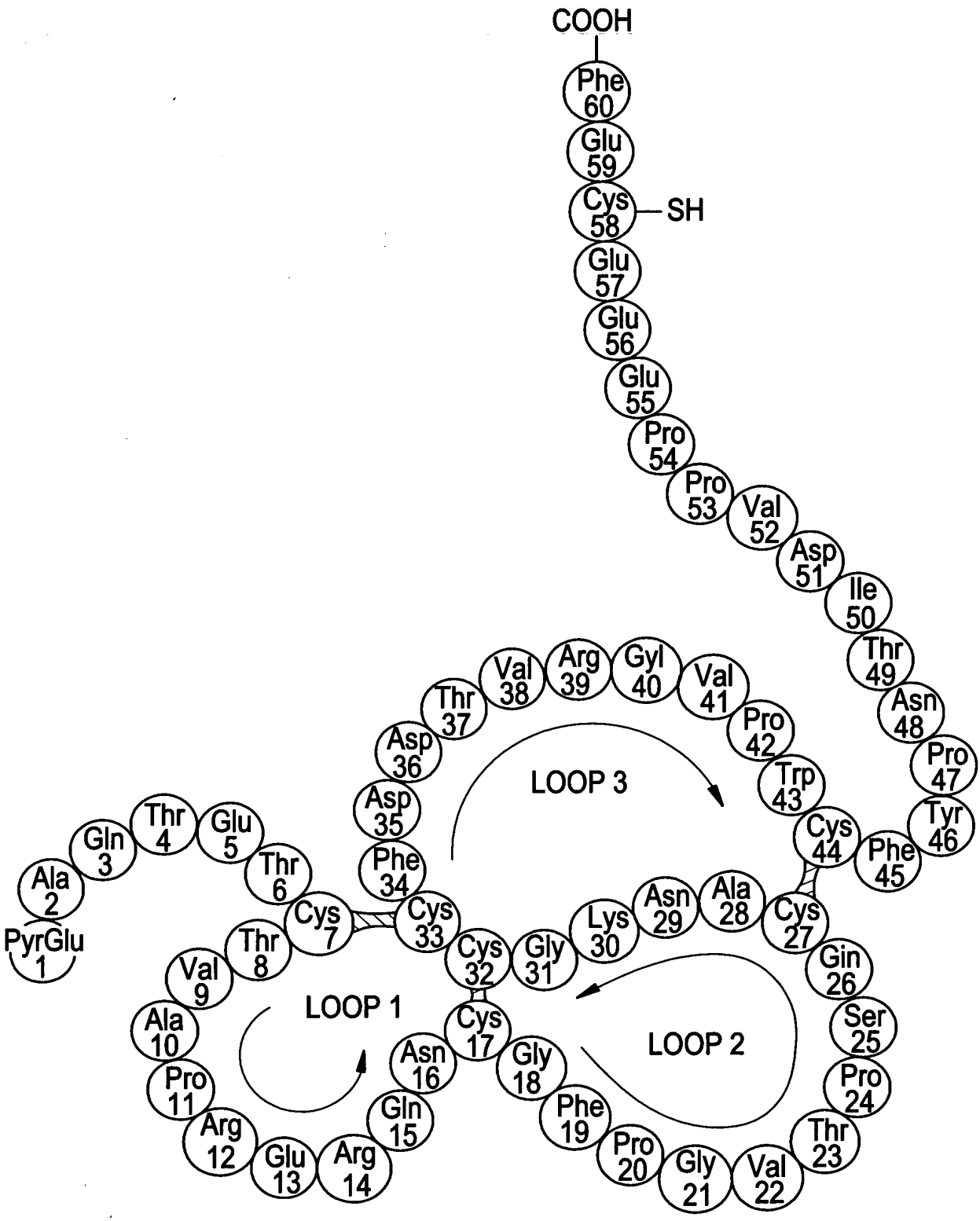

FIG. 4B

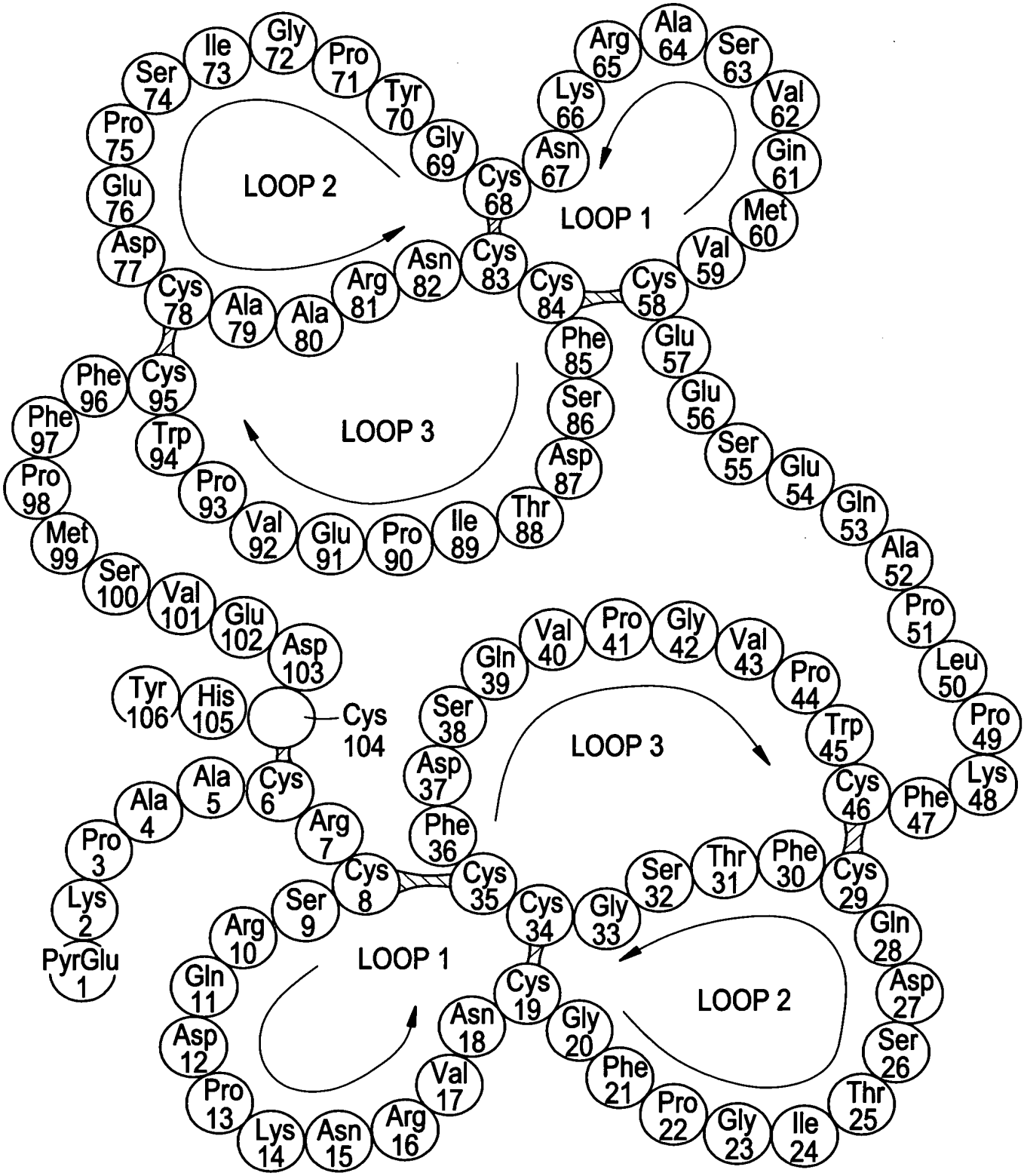

FIG. 5

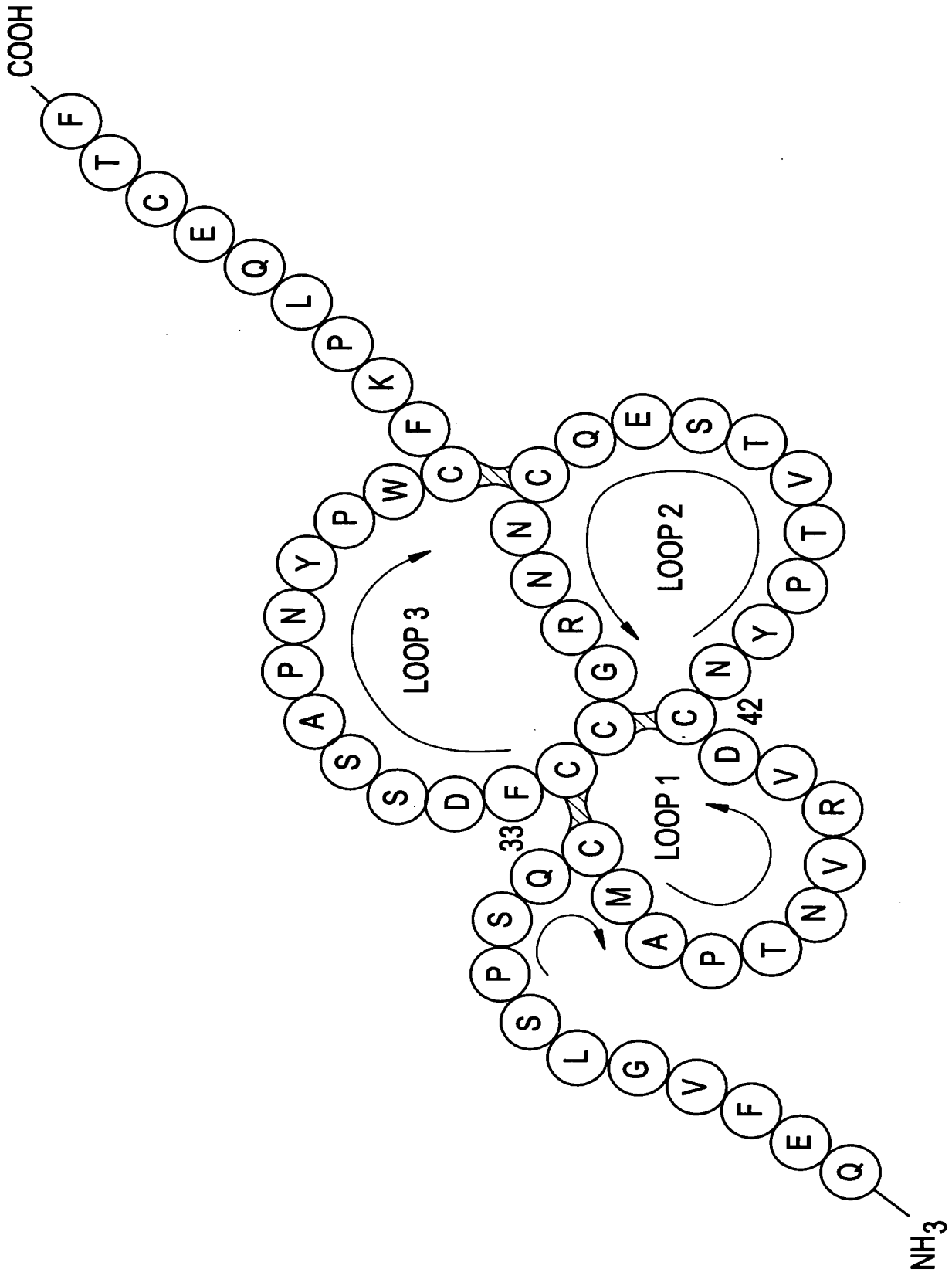

FIG. 6

```
g atg ctg ggg ctg gtc ctg gcc ttg ctg tcc tcc agc tct gct gag gag      49
  Met Leu Gly Leu Val Leu Ala Leu Leu Ser Ser Ser Ser Ala Glu Glu
    1               5                  10                  15

tac gtg ggc ctg tct gca aac cag tgt gcc gtg ccg gcc aag gac agg      97
Tyr Val Gly Leu Ser Ala Asn Gln Cys Ala Val Pro Ala Lys Asp Arg
             20                  25                  30
gtg gac tgc ggc tac ccc cat gtc acc ccc aag gag tgc aac aac cgg     145
Val Asp Cys Gly Tyr Pro His Val Thr Pro Lys Glu Cys Asn Asn Arg
         35                  40                  45
ggc tgc tgc ttt gac tcc agg atc cct gga gtg cct tgg tgt ttc aag     193
Gly Cys Cys Phe Asp Ser Arg Ile Pro Gly Val Pro Trp C   P   K
     50                  55                  60

ccc ctg cag gaa gca gaa tgc acc ttc tgaggcacct ccagctgccc           243
P   L   Q   E   A   E   C   T   F
65                  70

ctgggatgca ggctgagcac ccttgcccgg ctgtgattgc tgccaggcac tgttcatctc   303
agtttttctg tccctttgct cccggcaagc tttctgctga aagttcatat ctggagcctg   363
atgtcttaac gaataaaggt cccatgctcc acccgaaaaa                         403
```

FIG. 7

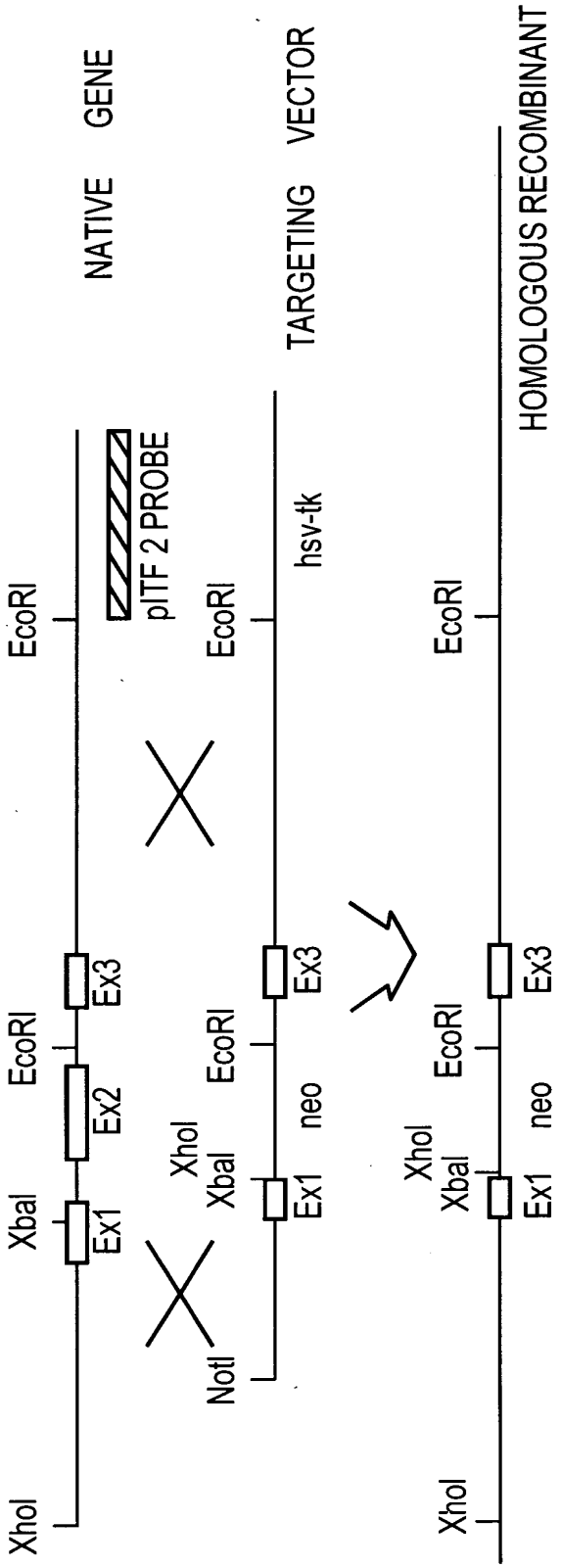

FIG. 8

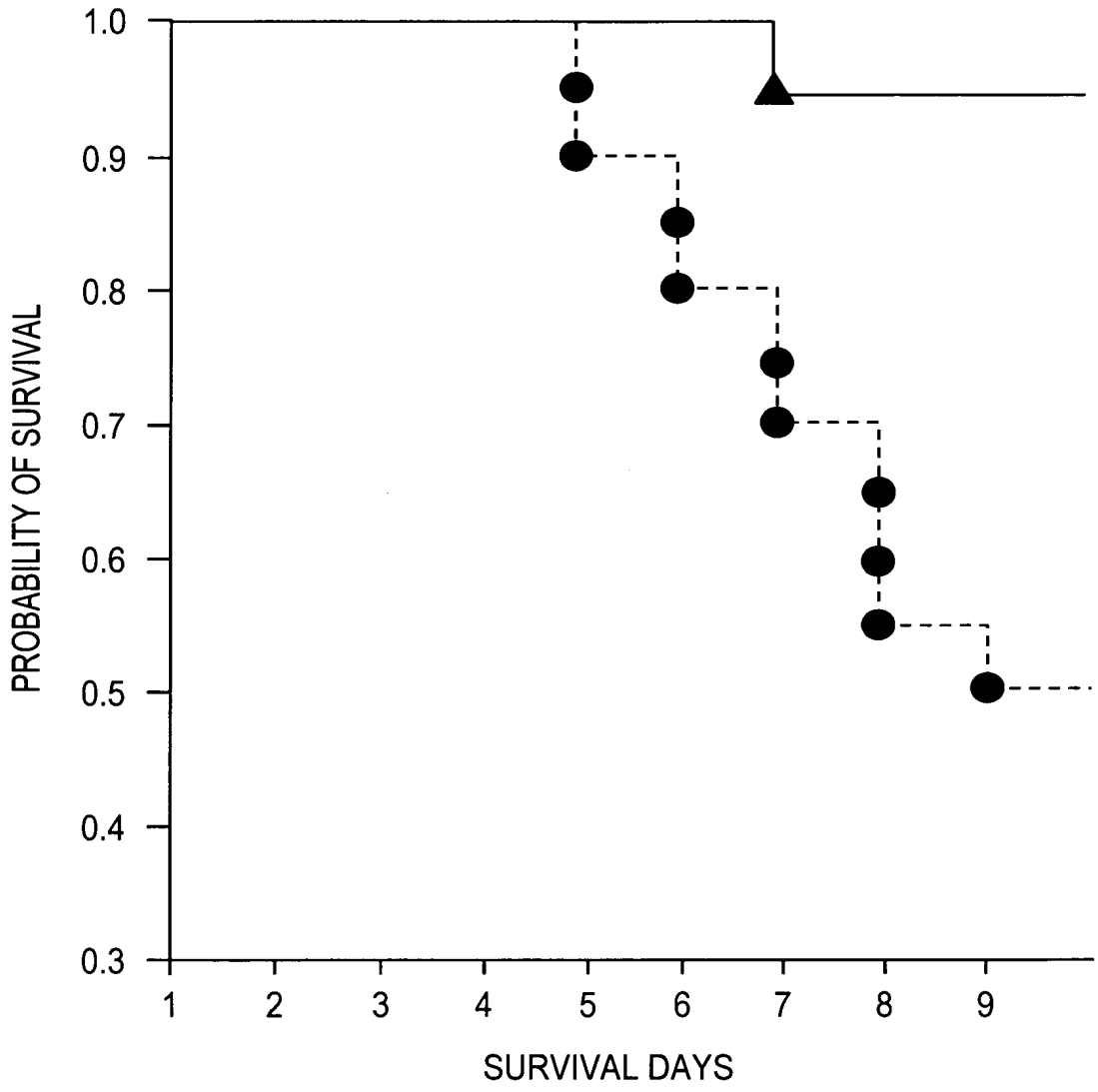

FIG. 9

```
                    gag aaa ccc tcc ccc tgc cag tgc tcc agg ctg agc
                    Glu Lys Pro Ser Pro Cys Gln Cys Ser Arg Leu Ser
                      1               5                  10

ccc cat aac agg acg aac tgc ggc ttc cct gga atc acc agt gac cag
Pro His Asn Arg Thr Asn Cys Gly Phe Pro Gly Ile Thr Ser Asp Gln
          15                  20                  25

tgt ttt gac aat gga tgc tgt ttc gac tcc agt gtc act ggg gtc ccc
Cys Phe Asp Asn Gly Cys Cys Phe Asp Ser Ser Val Thr Gly Val Pro
     30                  35                  40

tgg tgt ttc cac ccc ctc cca aag caa gag tcg gat cag tgc gtc atg
Trp Cys Phe His Pro Leu Pro Lys Gln Glu Ser Asp Gln Cys Val Met
 45                  50                  55                  60

gag gtc tca gac aga aga aac tgt ggc tac ccg ggc atc agc ccc gag
Glu Val Ser Asp Arg Arg Asn Cys Gly Tyr Pro Gly Ile Ser Pro Glu
                    65                  70                  75

gaa tgc gcc tct cgg aag tgc tgc ttc tcc aac ttc atc ttt gaa gtg
Glu Cys Ala Ser Arg Lys Cys Cys Phe Ser Asn Phe Ile Phe Glu Val
               80                  85                  90

ccc tgg tgc ttc ttc ccg aac tct gtg gaa gac tgc cat tac
Pro Trp Cys Phe Phe Pro Asn Ser Val Glu Asp Cys His Tyr
          95                  100                 105
```

FIG. 10

```
atccctgact cggggtcgcc tttggagcag agaggaggca atg gcc acc atg gag      55
                                              Met Ala Thr Met Glu
                                                1               5

aac aag gtg atc tgc gcc ctg gtc ctg gtg tcc atg ctg gcc ctc ggc     103
Asn Lys Val Ile Cys Ala Leu Val Leu Val Ser Met Leu Ala Leu Gly
                10                  15                  20

acc ctg gcc gag gcc cag aca gag acg tgt aca gtg gcc ccc cgt gaa     151
Thr Leu Ala Glu Ala Gln Thr Glu Thr Cys Thr Val Ala Pro Arg Glu
            25                  30                  35

aga cag aat tgt ggt ttt cct ggt gtc acg ccc tcc cag tgt gca aat     199
Arg Gln Asn Cys Gly Phe Pro Gly Val Thr Pro Ser Gln Cys Ala Asn
        40                  45                  50

aag ggc tgc tgt ttc gac gac acc gtt cgt ggg gtc ccc tgg tgc ttc     247
Lys Gly Cys Cys Phe Asp Asp Thr Val Arg Gly Val Pro Trp Cys Phe
    55                  60                  65

tat cct aat acc atc gac gtc cct cca gaa gag gag tgt gaa ttt         292
Tyr Pro Asn Thr Ile Asp Val Pro Pro Glu Glu Glu Cys Glu Phe
70                  75                  80

tagacacttc tgcagggatc tgcctgcatc ctgacggggt gccgtcccca gcacggtgat   352
tagtcccaga gctcggctgc cacctccacc ggacacctca gacacgcttc tgcagctgtg   412
cctcggctca caacacagat tgactgctct gactttgact actcaaaatt ggcctaaaaa   472
ttaaaagaga tcgatattaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa   532
aaaaaaaa                                                           540
```

FIG. 11

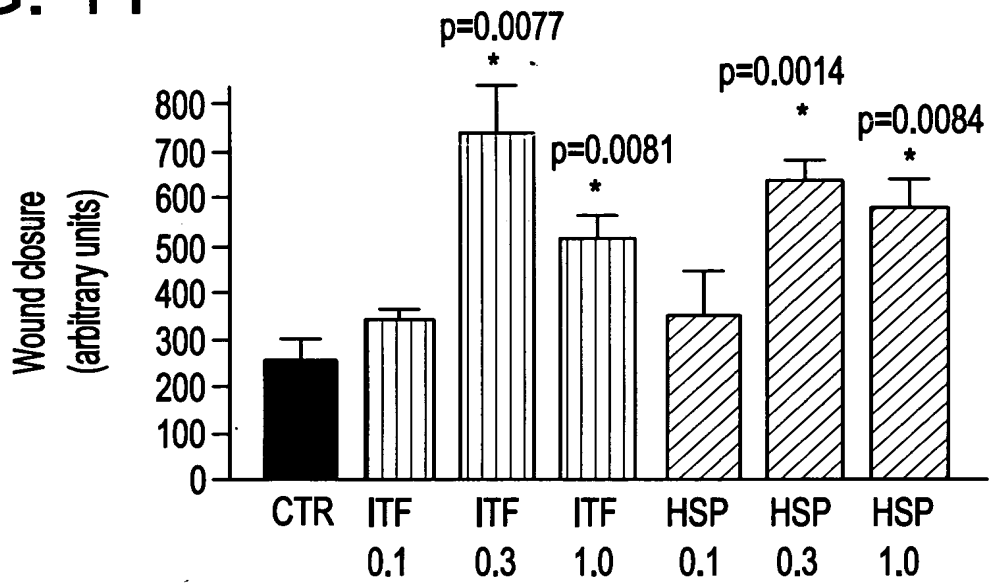

FIG. 12

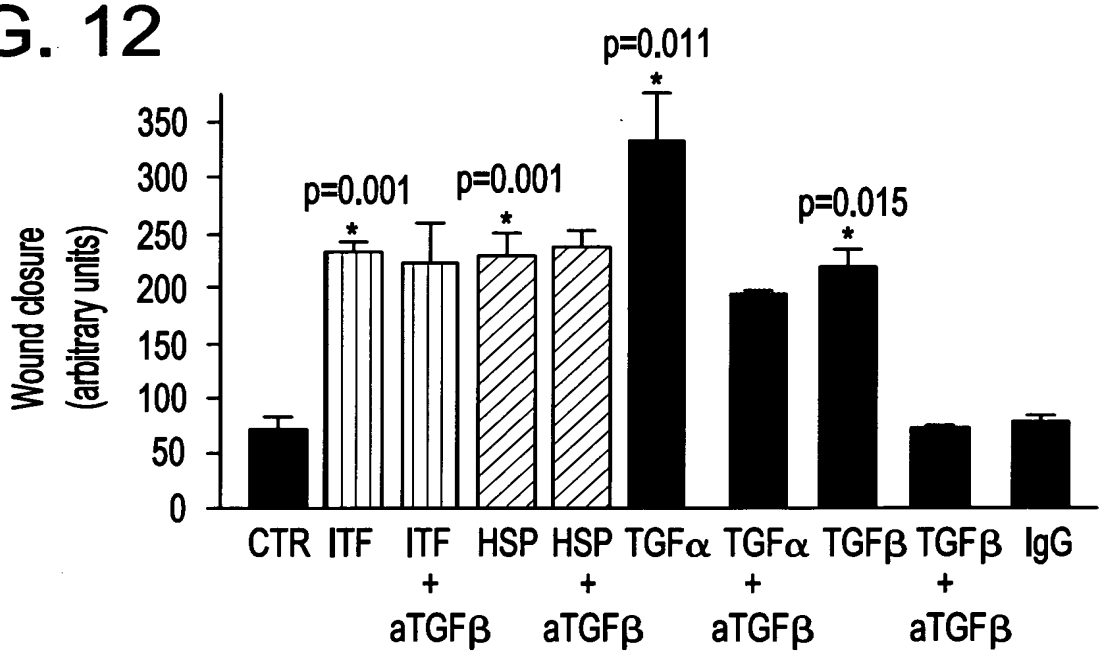

FIG. 13